## **CLAIMS**

- A process for preparing synthetic latex compound, the said process includes the steps of:
- a) adding a polyvalent metal chemical or a mixture thereof to a surfactant stabilised synthetic carboxylated latex, or blend with other synthetic latex to form a synthetic latex compound;
  - b) stirring the synthetic latex compound;
  - c) diluting the synthetic latex compound obtained in step (b) to a predetermined total solid content (TSC); and
    - d) maintaining the synthetic latex compound obtained in step (c) at a temperature between 0 to 80°C.
- The process as claimed in claim 1, wherein the polyvalent metal chemical
   may be zinc oxide, zinc carbonate, calcium carbonate, magnesium oxide,
   magnesium carbonate, hydroxides of calcium, magnesium, aluminium or
   aluminates or any combinations thereof.
- 3. The process as claimed in claim 1, wherein the synthetic carboxylated latex
  may be a synthetic carboxylated butadiene co-polymer latex, a synthetic
  carboxylated acrylonitrile butadiene latex, a synthetic carboxylated styrene
  butadiene latex, a synthetic carboxylated chlorinated butadiene co-polymer
  latex or any blend of these latices.
- 4. The process as claimed in claim 1, wherein the synthetic carboxylated latex compound is synthetic carboxylated nitrile latex.

- 5. A synthetic latex compound obtained from a process which includes the steps of:
  - a) adding a polyvalent metal chemical or a mixture thereof to a surfactant stabilised synthetic carboxylated latex, or blend with other synthetic carboxylated or non-carboxylated latex or latices to form a synthetic latex compound;
    - b) stirring the synthetic latex compound;

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- c) diluting the synthetic latex compound obtained in step (b) to a predetermined total solid content (TSC); and
- d) maintaining the synthetic latex compound obtained in step (c) at a temperature between 0 to 80°C.
- 6. The synthetic latex compound as claimed in claim 5, wherein the polyvalent metal chemical may be zinc oxide, zinc carbonate, calcium carbonate, magnesium oxide, magnesium carbonate, hydroxides of calcium, magnesium, aluminium or aluminates or any combinations thereof.
- 7. The synthetic latex compound as claimed in claim 5, wherein the synthetic20 latex compound is nitrile latex.
  - 8. A non-staining rubber article such as a non-staining glove, condom, finger cot or balloon made from a composition containing an effective amount of synthetic carboxylated butadiene co-polymer latex and an effective amount of polyvalent metal chemical or mixture thereof as the sole cross-linking agent.

- 9. A non-staining rubber article such as a non-staining glove, condom, finger cot or balloon made from a composition containing an effective amount of synthetic polymer latex or latices, an effective amount of synthetic carboxylated butadiene co-polymer latex and an effective amount of polyvalent metal chemical as the sole cross-linking agent.
- 10. The non-staining rubber article as claimed in claim 8 or 9, wherein the rubber article is free from any sulphur and/or sulphur containing chemicals.

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- 11. The non-staining rubber article as claimed in claim 8 or 9, wherein the synthetic carboxylated butadiene co-polymer latex is carboxylated acrylonitrile butadiene latex.
- 15 12. The non-staining rubber article as claimed in claim 8 or 9, wherein the polyvalent metal chemical are selected from any or a combination of oxides of zinc, magnesium, calcium or aluminium.
- 13. The non-staining rubber article as claimed in claim 12, wherein carbonates

  of zinc, magnesium, calcium or aluminium are combined with the oxides.
  - 14. The non-staining rubber article as claimed in claims 8 and 9, wherein the zinc oxide level is equal to or greater than 0.6 phr.
- 25 15. The non-staining rubber article as claimed in claims 8 and 9, wherein the rubber article is free from rubber accelerators.

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16. The non-staining rubber article as claimed in claims 8 and 9, wherein the rubber article is free from Type I and Type IV latex allergens.

17. The non-staining rubber article as claimed in claims 8 and 9, wherein the rubber article does not stain when in contact with skin or other surfaces, which are contaminated with copper, silver, iron or lead or chemicals of these metals.